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PROVISIONAL APPLICATION COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION under 37 CFR 1.53 (b)(2).

Docket Number		P97,0146		Type a plus sign (+) inside this box ->		+	
INVENTOR(s)/APPLICANT(s)							
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TITLE OF THE INVENTION (280 characters max)							
"MULTI-LAYERED CANNED PET FOOD"							
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ENCLOSED APPLICATION PARTS (check all that apply)							
<input checked="" type="checkbox"/> Specification	Number of Pages	15	<input type="checkbox"/> Small Entry Statement				
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METHOD OF PAYMENT (check one)							
<input checked="" type="checkbox"/> A check or money order is enclosed to cover the Provisional filing fees						PROVISIONAL FILING FEE AMOUNT (\$)	
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees and credit Deposit Account Number: 08-2290						\$150.00	

This invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.☐ Yes, the name of the U.S. Government agency and the Government contract number are _____

Respectfully submitted,

SIGNATURE

Date

January 24, 1997

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REGISTRATION NO. (if appropriate) 30,142 (1)

☐ Additional inventors are being named on separately numbered sheets attached here to

PROVISIONAL APPLICATION FILING ONLY

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NO5531/US1

Patent Application

Title: /Multi-layered Canned Pet food/

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Field of the Invention

This invention relates to a canned pet food product which contains layers of different appearance and texture. The invention also relates to a process for producing the canned pet food product.

Background to the Invention

Canned pet foods are traditionally available in two forms; meat loafs and chunk-type products. The meat loafs are particularly well known. They are usually prepared by comminuting raw meat material and mixing it with water, salt, spices, curing agents, gelling agents and, if necessary, fats to provide a batter. The batter is then heated. The heated batter is then filled into cans to form, after retorting and cooling, a meat loaf.

These meat loaf products are popular because they are easily manufactured, readily digested, very palatable to animals, and are readily formulated to contain necessary nutrients and trace elements. However they are in the form of a uniform, homogeneous mass which lacks the striated and chunky appearance of meat. This may be a disadvantage for pet foods since a meat-like appearance can greatly enhance consumer acceptability.

The chunk-type products overcome this difficulty since they are formulated emulsions which simulate the appearance of meat. One example of these formulated emulsions is described in US patent 4,781,939. The formulated meat emulsion described in the patent is produced by first forming a meat emulsion from a meat source. Dry ingredients such as dry proteinaceous materials (for example wheat gluten and soy flour), vitamins, minerals and the like are then mixed into the meat emulsion to provide a viscous emulsion. The viscous emulsion is then run through a high-speed emulsion mill in which the emulsion is rapidly heated to a temperature in the range of 102°C to 118°C. The emulsion leaving the emulsion mill is fed to a holding tube where the protein in the emulsion coagulates to form a solid emulsion product. This solid emulsion product is then cut into chunks. The chunks are highly striated and resemble natural meat chunks in appearance and texture.

Another example of these formulated emulsions is disclosed in US patent 5,132,137. However, in this process the viscous emulsion is heated to a temperature of 40 to 70°C in the emulsion mill; which is much lower than that in the process disclosed in US patent 4,781,939. The heated emulsion takes longer to coagulate and is therefore held in a holding tube for a longer time. The emulsion is then formed into strands and baked in an oven at a core temperature of 70 to 95°C.

Canned pet food products which are a combination of the meat loafs and the chunk-type products are also known. These products are formed of a matrix of the meat loaf surrounding pieces of formulated emulsion products.

However there is a need for canned pet food products which have new and interesting textures and appearances to further stimulate consumer interest.

Summary of the invention

Accordingly, in one aspect, this invention provides a canned pet food product comprising:

a base layer comprising solid food pieces in a gravy, the gravy comprising about 20% to about 40% of the base layer; and

an upper layer comprising a substantially solid foodstuff capable of supporting the base layer when the pet food product is inverted, the substantially solid foodstuff comprising about 20% to about 80% by weight of the pet food product.

Often, after opening a can of pet food, the consumer shakes the contents out into the pet's bowl or dish. Therefore, what was the base layer becomes the upper layer in the pet's bowl or dish. The consumer is therefore presented with an attractive layer of solid food pieces in a gravy above a clearly defined layer of a substantially solid foodstuff.

Preferably, the solid food pieces in the base layer are a formulated emulsion product having the striated appearance of natural meat. The formulated emulsion product preferably comprises about 65% to about 95% by weight of a

meat material and about 5% to about 35% by weight of a proteinaceous material. If desired, the formulated emulsion product may be in the form of flakes.

5 The gravy preferably comprises water and about 2% to about 8% by weight of a starch; for example about 4% by weight of starch. The starch is preferably a heat sensitive starch such that its viscosity increasing properties are reduced after being heated. In particular, it is preferred that the gravy has an initial viscosity in the range of about 350 to about 1000 centipoise prior to retorting of the can but a lower viscosity after retorting. It is particularly
10 preferred that the gravy have an initial viscosity of about 500 to about 700 centipoise; for example about 600 centipoise.

15 The base layer preferably has a moisture content of about 60% to about 70% by weight. It is particularly preferred that the base layer has a moisture content of about 62% to about 64% by weight; for example about 63% by weight.

20 The substantially solid foodstuff is preferably a gelled meat loaf, cooked rice, cooked noodles, or aspic, or mixtures thereof. The aspic may contain food pieces such as cooked vegetable pieces.

 When the solid foodstuff is a gelled meat loaf, the upper layer preferably has a moisture content of about 70% to about 85% by weight.

25 During filling, the upper layer preferably has a viscosity in the range of about 2500 to about 4000 centipoise. A viscosity in the range of about 3000 centipoise is particularly preferred.

 In another aspect, this invention provides a process for producing a canned pet food product having at least two layers, the process comprising:

30 filling a base layer comprising solid food pieces in a gravy into a can, the gravy having a viscosity in the range of about 350 to about 1000 centipoise and forming about 20% to about 40% of the base layer;

 filling an upper layer into the can, the upper layer comprising a settable foodstuff having a viscosity in the range of about 2500 to about 4000 centipoise
35 and, upon cooling, forming a substantially solid foodstuff, the substantially solid

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foodstuff comprising about 20% to about 80% by weight of upper and base layers;

sealing the can; and
retorting the sealed can.

5

Preferably the base layer is filled into the can to provide about 30% to about 50% by weight of the upper and base layers.

10 In a yet further aspect, this invention provides a canned pet food product having at least two layers and produced according to the process defined above.

Detailed description of the Invention

15 Embodiments of the invention are now described, by way of example only.

To produce the pet food product, a mixture of solid food pieces in a gravy and a settable foodstuff must be separately prepared.

20 a) Preparation of the solid food pieces in gravy:

25 The mixture of solid food pieces in a gravy may be prepared by simply mixing together solid pieces of meat or other material, or both, and a gravy. The meat material may be any suitable meat source, for example, muscular or skeletal meat, meat by-products or a mixture of meat and meat by-products. The meat material may be in the form of chunks or may be in the form of flakes. However, if a meat material is used, it is preferred if the solid food pieces are a formulated emulsion product. Solid pieces of other material may also be used; such as cooked rice grains, pasta or noodles, vegetable pieces, and the like.

30

If a formulated emulsion product, is used, it may be produced by any suitable procedure, for example the procedures described in US patents 4,781,939 and 5,132,137. In these procedures, a meat material is formed into a meat emulsion; usually by grinding and then emulsifying blocks of the meat material.
35 The meat material may be any suitable source of animal protein; for example the muscular or skeletal meat of mammals, poultry, and fish or meat by-products

such as hearts, liver, kidneys, tongue and the like. The exact composition may be selected according to cost and the desired flavor. The meat material conveniently may be in frozen form prior to grinding. Alternatively or in addition, the meat material may be in the form of meat meals such as poultry meal, fish meal, red meat meal and mixtures thereof. Again the exact composition may be selected according to cost and the desired flavor. Mixtures of any of the above may also be used. The emulsification may be carried out in any suitable equipment.

Usually a proteinaceous material is added to the emulsion to improve emulsion stability and binding. The proteinaceous material may be a vegetable or animal protein source; for example wheat gluten, soy flour, soy protein concentrates, soy protein isolates, egg proteins, whey, casein, etc. The exact choice will depend upon availability, cost and palatability. Usually about 5% to about 35% of the proteinaceous material is used.

If desired or required, fats may be added to the emulsion. Usually the amount of fat in the emulsion must be controlled to facilitate processing and to obtain an acceptable product. However, the meat material may well contain the desired amount of fats and hence adjustment may not be necessary. Typically at this stage the emulsion contains a maximum fat level of about 25% by weight. Conveniently, the amount of fat in the emulsion is in the range of about 5% to 15% by weight; more preferably about 7% to about 12% by weight. The mass ratio protein to fat in the emulsion is preferably about 1:1 to about 7:1. If added, the fats may be any suitable animal fats; for example tallow, or may be vegetable fats.

Additional ingredients such as sugars, salts, spices, seasonings, flavoring agents, minerals, and the like may also be added to the emulsion. The amount of additional ingredients used is preferably such that they make up about 1% to about 5% by weight of the formulated emulsion product.

Water may also be added to provide from about 45% to 80% by weight moisture in the emulsion. If sufficient moisture is present in the meat material, water need not be added.

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Once mixed, the emulsion is preferably fed through a vacuum stuffer, or similar de-aeration apparatus, to de-aerate the emulsion. This removes air which may otherwise cause disruption of the formulated emulsion product and reduce its meat-like appearance.

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The emulsion is then fed to an emulsion mill which subjects the emulsion to rapid mechanical heating and shearing. Any suitable emulsion mill may be used, for example the emulsion mill disclosed in US patent 5,132,137. Other suitable emulsion mills are commercially available under the trade name of
10 Trigonal and may be obtained from Siefer Maschinenfabrik GmbH & Co KG, Bahnhofstrasse 114, Postfach 101008, Velbert 1, Germany.

The temperature of the emulsion is raised to the desired coagulation temperature in the emulsion mill in a few seconds. For example, the temperature
15 may be raised to from about 100°C to about 120°C. Alternatively, the temperature may be raised to in the range of about 45°C to about 75°C as described in US patent 5,132,137. Usually the mechanical energy generated in the emulsion mill will be sufficient to heat the emulsion but this may be supplemented by the injection of superheated steam.

20

The heated emulsion leaving the emulsion mill is then transferred to a holding tube. In the holding tube, the heated emulsion coagulates while moving slowly along the holding tube. The residence time of the heated emulsion in the holding tube is sufficient for the emulsion to have coagulated into a firm
25 emulsion product upon reaching the exit of the holding tube.

The firm emulsion product leaving the holding tube is then transferred to a cutter where it is cut into chunks of size suitable for use in a pet food. The chunks may be subjected to flaking if desired.

30

The gravy or sauce is produced from water, starch and suitable flavoring agents and should comprise about 20% to about 40% of the mixture of solid pieces and gravy. The amount of starch used is sufficient to provide a gravy with a viscosity of about 350 to about 1000 centipoise; for example up to about 8% by
35 weight of starch may be used. The starch is preferably such that its viscosity increasing properties break down during retorting of the canned pet food. These

starches, which are commonly known as modified starches for filling retorted foods, are commercially available from Staley Manufacturing Company (2200 E. Eldorado Street. Decatur, Illinois 62525, USA) and National Starch and Chemical Company (10 Finderne Avenue, Bridgewater, New Jersey 08807).

5

In place of, or in addition to, the starch, one or more suitable gums may be incorporated into the gravy. Suitable gums are kappa-carrageenan, locust bean gum, guar gum and xanthan gum.

10 b) Preparation of the settable foodstuff:

When the substantially solid foodstuff is selected to be a gelled meat loaf, the settable foodstuff is a meat batter. The meat batter may be prepared by emulsifying a suitable meat material to produce a meat emulsion. The meat material may be any suitable meat source, for example as described above. Suitable gelling or thickening agents, for example gums such as kappa-carrageenan, locust bean gum, guar gum and xanthan gum may be added to the meat emulsion. Usually no more than about 2% by weight of gelling or thickening agent is needed.

15

20

Additional ingredients such as sugars, salts, spices, seasonings, flavoring agents, minerals, and the like may also be added to the meat emulsion. The amount of additional ingredients used is preferably such that they make up about 0.25% to about 5% by weight of the meat batter.

25

Water may also be added the meat emulsion to provide from about 70% to about 85% by weight. If sufficient moisture is present in the meat material, water need not be added.

30

The meat emulsion is then heated to a temperature above about 65°C in a mixer-cooker. Steam may be injected into the meat batter if desired. The heated meat emulsion is then again emulsified to provide the meat batter and the meat batter maintained at a temperature above about 60°C until needed. At this stage, the meat batter has a viscosity in the range of about 2500 to about 4000 centipoise.

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Alternative, the substantially solid foodstuff may be cooked rice or noodles, or both. In this case, the settable foodstuff may be freshly cooked rice or noodles. Upon cooling, the freshly cooked rice or noodles form a substantially solid layer. If desired, suitable gelling or thickening agents, for example gums such as kappa-carrageenan, locust bean gum, guar gum and xanthan gum may be added to the rice or noodles. Usually no more than about 2% by weight of gelling or thickening agent is needed.

Additional ingredients such as sugars, salts, spices, seasonings, flavoring agents, minerals, and the like may also be added to the rice or noodles. The amount of additional ingredients used is preferably such that they make up about 0.25% to about 5% by weight of the settable foodstuff.

Alternative, the substantially solid foodstuff may be a solid aspic; for example an aspic which contains cooked vegetable pieces. The aspic may be prepared as is conventional. Additional ingredients such as sugars, salts, spices, seasonings, flavoring agents, minerals, and the like may also be added to aspic. The amount of additional ingredients used is preferably such that they make up about 0.25% to about 5% by weight of the aspic.

c) Canning:

The mixture of the solid food pieces and gravy and the settable foodstuff are then fed to suitable filling machines; one for filling the solid food pieces and gravy and one for filling the settable foodstuff. For filling the solid food pieces and gravy, a pocket filling is particularly suitable. Pocket fillers are commercially available; for example from Luthi Machinery and Engineering Co., Inc (1726 W. 180th Street, Gardena California, 90248, USA), Carruthers Equipment Company (1815 N. W. Warrenton Drive, Warrenton, Oregon 97146, USA) and Zilli & Bellini SPA (Via Benedetta, 85/A, 43100 Parma, Italy). Suitable filling machines for filling the settable foodstuff are commercially available from Hema USA Inc (426 W. Universal Circle, Sandy, Utah 84070, USA), PRC (2582 S. Tejon Street, Englewood, Colorado 80110, USA). During filling, the settable foodstuff should be maintained at a temperature or other conditions to prevent settable.

5 A metered amount of the mixture of the solid food pieces and gravy is fed into each can entering the pocket filler in a defined layer comprising about 20% to about 80% of the volume of the can. The cans are then fed to a separate filling machine for filling the settable foodstuff. A metered amount of the settable foodstuff is then fed onto the mixture of the solid food pieces and gravy. Due to the density and viscosity of the mixture of the solid food pieces and gravy and the density and viscosity of the settable foodstuff, clear and distinct layers are formed in the can. These layers remain clear and distinct during seaming of the cans; despite the rotational movement of the cans. After having cooled, the settable foodstuff will form a firm, substantially solid layer.

15 The cans are then retorted under conditions sufficient to effect commercial sterilization in the normal manner. Typically the cans are retorted at a temperature of about 115°C to about 125°C for about 30 to 100 minutes. During the retorting operation, the starch in the gravy preferably breaks down such that the previously viscous gravy takes on the appearance of a thin, runny sauce.

20 The cans therefore contain a product which comprises a lower layer made up of solid pieces of food in a thin sauce and an upper layer of a substantially solid foodstuff. The layers are clear and distinct and the product is visually attractive once removed from the can.

25 Example 1

a) Production of solid food pieces in gravy

30 Blocks of frozen meat made up of beef, pork, poultry, fish and meat by-products are cut into pieces of about 10 cm in size and the pieces are then ground in a meat grinder. The ground meat is transferred to a mixer in which it is heated to a temperature of about 0°C. After mixing, the ground meat is fed into an emulsifier in which it is emulsified and heated to a temperature of about 20°C. The meat emulsion is then transferred to a mixer. A blend of dry proteinaceous material made up of a mixture of wheat gluten, soy flour and soy protein concentrate is added. Additives in the form of vitamins, minerals, flavoring agents, sugars and salts are then added. At this stage, the emulsion is made up of

about 77% by weight of meat materials, about 21% by weight of the proteinaceous material and about 2% additives. The fat content is about 10% by weight and the moisture content is about 55% by weight.

5 The emulsion, at a temperature of about 35°C, is then pumped to an emulsion mill in which it is rapidly heated up to a temperature of about 107°C. The hot emulsion is ejected from the emulsion mill into a holding tube. The emulsion moves slowly through the holding tube such that it is sufficiently cooled and coagulated upon exiting the tube. The coagulated product leaving the
10 holding tube is then cut into cubes of about 2 cm dimension. The chunks have a highly striated, meat like appearance. The chunks are then cooled and flaked to produce flakes of about 1 to about 2 cm size. The flakes are screened to remove small fragments.

15 A gravy is then prepared by mixing a modified starch, flavoring and coloring agents, and water. The gravy has a viscosity of about 600 centipoise. The mixture is heated to about 80°C and then blended with the flakes. The gravy provides about 30% by weight of the mixture of solid food pieces and gravy.

20 b) Production of meat batter

 Blocks of frozen meat made up of beef, pork, poultry, fish and meat by-products are cut into pieces of about 10 cm in size and the pieces are then ground in a meat grinder. The ground meat is transferred to a mixer and heated.
25 Vitamins, minerals, flavoring agents, salts and about 1% by weight of a gum mixture are added. The mixture is heated to about 75°C under mixing and maintained at this temperature. The meat batter has a viscosity of about 3000 centipoise.

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c) Canning

5 The mixture of solid food pieces in gravy is then transferred to a pocket filler obtained from Carruthers Equipment Company and filled into cans. The amount of the mixture of solid food pieces in gravy is selected to provide about 40% of the total product weight in the can. The cans are then transferred to a filling machine obtained from PRC. The remaining space in each can is filled with meat emulsion.

10 The cans are then seamed and retorted. A can is opened and turned out onto a plate. The product has a clearly defined lower layer made up of meat loaf topped by a layer of meat flakes in a thin sauce.

Example 2

15 The process of example 1 is repeated except that cooked rice is substituted for the flakes of formulated meat emulsion in the solid food pieces and gravy. A can of the product is opened and turned out onto a plate. The product has a clearly defined lower layer made up of meat loaf topped by a layer of cooked rice
20 in a thin sauce.

Example 3

25 The process of example 1 is repeated except that freshly cooked rice is used in place of the meat batter. A can of the product is opened and turned out onto a plate. The product has a clearly defined lower layer made up of rice topped by a layer of meat flakes in a thin sauce.

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We Claim

1. A canned pet food product comprising:
a base layer comprising solid food pieces in a gravy, the gravy comprising
5 about 20% to about 40% of the base layer; and
an upper layer comprising a substantially solid foodstuff capable of
supporting the base layer when the pet food product is inverted, the substantially
solid foodstuff comprising about 20% to about 80% by weight of the pet food
product.
- 10 2. A product according to claim 1 in which the solid food pieces in the base
layer are a formulated emulsion product having the striated appearance of natural
meat.
- 15 3. A product according to claim 2 in which the formulated emulsion product
comprises about 65% to about 95% by weight of a meat material and about 5% to
about 35% by weight of a proteinaceous material.
- 20 4. A product according to claim 3 in which the formulated emulsion product
is in the form of flakes.
- 25 5. A product according to claim 1 in which the gravy comprises water and
about 2% to about 8% by weight of a heat sensitive starch which undergoes a
reduction in its viscosity increasing properties during heating.
6. A product according to claim 1 in which the gravy has an initial viscosity
in the range of about 350 to about 1000 centipoise prior to filling of the base
layer into the can.
- 30 7. A product according to claim 1 in which the base layer has a moisture
content of about 60% to about 70% by weight.
8. A product according to claim 1 in the substantially solid foodstuff is a
gelled meat loaf, cooked rice, cooked noodles, or aspic, or mixtures thereof.
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9 A product according to claim 8 in which the upper layer has a moisture content of about 70% to about 85% by weight.

5 10. A product according to claim 9 in which the upper layer has a viscosity in the range of about 2500 to about 4000 centipoise during filing of the upper layer into the can.

10 11. A canned pet food product comprising:
a base layer comprising solid food pieces in a gravy, the gravy comprising about 20% to about 40% of the base layer; and
an upper layer comprising a gelled meat loaf, the gelled meat loaf comprising about 20% to about 80% by weight of the pet food product.

15 12. A canned pet food product comprising:
a base layer comprising solid food pieces in a gravy, the gravy comprising about 20% to about 40% of the base layer; and
an upper layer comprising a substantially solid foodstuff capable of supporting the base layer when the pet food product is inverted, the substantially solid foodstuff being selected from cooked rice, cooked noodles or aspic, or mixtures thereof and comprising about 20% to about 80% by weight of the pet food product.

20 13. A process for producing a canned pet food product having at least two layers, the process comprising:
25 filling a base layer comprising solid food pieces in a gravy into a can, the gravy having a viscosity in the range of about 350 to about 1000 centipoise and forming about 20% to about 40% of the base layer;
filling an upper layer into the can, the upper layer comprising a settable foodstuff having a viscosity in the range of about 2500 to about 4000 centipoise and, upon cooling, forming a substantially solid foodstuff, the settable foodstuff comprising about 20% to about 80% by weight of upper and base layers;
30 sealing the can; and
retorting the sealed can.

35 14. A process according to claim 13 in which the base layer is filled into the can to provide about 30% to about 50% by weight of the upper and base layers.

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Abstract of the Disclosure

A canned pet food product having a base layer and an upper layer. The base layer is formed of solid food pieces in a gravy which makes up about 20% to about 40% of the base layer. The upper layer, which provides about 20% to about 80% by weight of the pet food product, is a substantially solid foodstuff. The substantially solid foodstuff is capable of supporting the base layer when the pet food product is inverted. The separation between the layers is clear and distinct.

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